

Mouse SUR1 Monoclonal Antibody | anti-Abcc8 antibody

SUR1 Antibody: ATTO 488

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA103190	Mouse	Human, Mouse, Hamster, Rat	Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SUR1; Monoclonal Antibody; SUR1 Antibody: ATTO 488; AM60008PU-N; ABC36; Abcc8; ATP binding cassette sub family C member 8; HHF1; HRINS; MRP8; PHHI; SUR; Sulfonylurea receptor (hyperinsulinemia); ATP binding cassette sub family C (CFTR/MRP) member 8; anti-Abcc8 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Hamster, Rat
Clonality	Monoclonal
Isotype	IgG1
Clone Number	S289-16
Specificity	Detects ~160kDa. Does not cross-react with SUR2B.
Purity/Purification	Protein G Purified
Form/Format	PBS pH7.4, 50% glycerol, 0.09% sodium azide
Concentration	1mg/mL (varies by lot)
Sequence Length	1582
Applicable Applications for anti-Abcc8 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Cellular Localization	Membrane
Immunogen	Fusion protein amino acids 1548-1582 (cytoplasmic C-terminus) of rat SUR1.
Certificate of Analysis	1 ug/ml was sufficient for detection of SUR1 in 20 ug of mouse brain membrane lysate and assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.
Research Areas	Atherosclerosis, Cancer, Cardiovascular System, Cell Markers, Cell Signaling, Heart, Membrane Markers, Neuron Markers, Neuroscience
Preparation and Storage	Store at -20°C. Avoid freeze/thaw cycles.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SUR1 Monoclonal Antibody, Clone S289-16 (AAA103190).Tissue: Neuroblastoma cell line (SK-N-BE).Species: Human.Fixation: 4% Formaldehyde for 15 min at RT.Primary Antibody: Mouse Anti-SUR1 Monoclonal Antibody (AAA103190) at 1:100 for 60 min at RT.Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT.Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT.Localization: Cytoplasm, Nucleus.Magnification: 60X.(A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) SUR1 Antibody. (D) Composite.



WB (Western Blot)

Western Blot analysis of Rat Brain Membrane showing detection of ~160 kDa SUR1 protein using Mouse Anti-SUR1 Monoclonal Antibody, Clone S289-16 (AAA103190).Lane 1: Molecular Weight Ladder.Lane 2: Rat Brain Membrane.Load: 15 ug.Block: 2% BSA and 2% Skim Milk in 1X TBST.Primary Antibody: Mouse Anti-SUR1 Monoclonal Antibody (AAA103190) at 1:200 for 16 hours at 4°C.Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:1000 for 1 hour RT.Color Development: ECL solution for 6 min in RT.Predicted/Observed Size: ~160 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-Abcc8 antibody	Sulfonylurea receptors (SUR) are membrane proteins which are the molecular targets of the sulfonylurea class of anti-diabetic drugs whose mechanism of action is to promote insulin release from pancreatic beta cells. More specifically, SUR proteins are subunits of the inward-rectifier potassium ion channels Kir6.x (6.1 and 6.2) (1). The association of four Kir6.x and four SUR subunits form an ion conducting channel commonly referred to as the KATP channel. The primary function of the sulfonylurea receptor is to sense intracellular levels of the nucleotides ATP and ADP and in response facilitate the open or closing its associated Kir6.x potassium channel. Hence the KATP channel monitors the energy balance within the cell (2).
Product Categories/Family for anti-Abcc8 antibody	Cell Signaling
References	1. Campbell J.D., Sansom M.S., Ashcroft F.M. (2003) EMBO Resp. 4(11): 1038-1042. 2. Nichols C.G. (2006) Nature. 440 (7083): 470-476.

NCBI AND UNIPROT INFORMATION

NCBI GI #	148368981
NCBI GeneID	25559
NCBI Accession #	NP_037171.2
NCBI GenBank Nucleotide #	NM_013039.2
UniProt Accession #	Q09429; O54989; P70532; Q9EQT0
NCBI Official Full Name	ATP-binding cassette sub-family C member 8
NCBI Official Synonym Full Names	ATP-binding cassette, subfamily C (CFTR/MRP), member 8
NCBI Official Symbol	Abcc8
NCBI Official Synonym Symbols	Sur; Sur1
NCBI Protein Information	ATP-binding cassette sub-family C member 8; sulfonylurea receptor 1; sulphonylurea receptor 1; ATP-binding cassette transporter sub-family C member 8; ATP-binding cassette, sub-family C (CFTR/MRP), member 8
UniProt Protein Name	ATP-binding cassette sub-family C member 8
UniProt Gene Name	Abcc8
UniProt Synonym Gene Names	Sur; Sur1
UniProt Entry Name	ABCC8_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

